Full Committee Meeting Minutes

TC 1.4 Control Theory and Application
http://tc0104.ashraetcs.org/
Tuesday, June 25, 2024 1:00 – 3:30 pm EDT Hybrid Conference

Code of Ethics Commitment

"In ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and shall avoid all real or perceived conflicts of interest. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We celebrate diverse and inclusive communities, understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and the communities our Society serves. We respect and welcome all. (See full Code of Ethics: https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics.)"

1) **Call to Order**

2) **TC 1.4 Scope**

   a) ASHRAE Technical Committee 1.4 is concerned with control theory, systems, and components (excluding refrigerant flow controls) for heating, ventilating, air conditioning, and refrigeration uses.

3) **Introduce Members, Guests, and Liaisons**

   a) General Introductions – In person and virtual

   b) Determination of a quorum

NAME	Roll-Off-Date		NAME	Roll-Off-Date	
Jayson Bursill	6/30/27	X	Chariti Young	6/30/26	-
JoeDon Breda	6/30/27	X	Elise Backstrom	6/30/25	X
Taraneh Shoorideh	6/30/27	X	Joe Kilcoyne	6/30/25	X
Charlotte Dean	6/30/26	-	Paul Ehrlich	6/30/25	X

Voting Items

    c) Joe Kilcoyne motioned to approval the minutes from 2024 Winter Meeting. JoeDon Breda seconded. Approved 5-0-0 (CNV).

4) Chair's Report

    a) Announcements and Highlights from TC Chairs Breakfast Meeting – *See below in Executive Report.*

5) Announcements

    a) **TAC – Technical Activities Committee – Section Head Jason Atkisson**
      i) Upcoming conferences
- Feb. 8-12, 2025 – Orlando, FL
- June 21-25, 2025 – Phoenix, AZ
- Jan. 31-Feb. 4, 2026 – Las Vegas, NV

    b) **RAC – Research Activities Committee – Section Head Srinivas Katimapula**
      i) Not present to provide update.

6) Liaison Reports – TC 1.4 Sponsored Functional Groups

    a) **SGPC 13 Specifying Building Automation Systems**

      i) Report given by Tara Shoorideh. Hoping to be published by Orlando Conference. Future addendum on GUI.

    b) **SGPC 36 High Performance Sequences of Operation for HVAC Systems**

      i) Report given by Joe Zhou (Chair of SGPC 36), version 2024 will publish this year including 20 addendums but no new sequences.

    c) **SPC 231P CDL – A Control Description Language for Building Environmental Control Sequences**
      i) Report given by Paul Ehrlich. Received around 60 comments from Public Review, have been addressed.

    d) **SPC 223P - Semantic Data Model for Analytics and Automation Applications in Buildings**
      i) Report given by Paul Ehrlich. Added to agenda.

e) **SSPC 135 – BACnet - A Data Communication Protocol for Building Automation and Control Networks**
   i) No update/report.

f) **MTG.CYB - Cybersecurity for HVAC Systems And Related Infrastructure**

   i) Liaison –Ron Bernstein

   ii) Voted to approve a guide to implement Manage BACnet. Document is posted on CYB.MTG's Basecamp or email Ron Bernstein or a copy. Link to document on CYB.MTG's Basecamp: https://3.basecamp.com/3106353/buckets/17485407/uploads/3416622953.

g) **MTG.EBO - Effective Building Operations**

   i) Liaison –Joe Kilcoyne

   ii) Meet virtually Friday, June 28th at 2 PM Eastern time. Link/invite provided on TC 1.4 Basecamp.

7) Sub-Committee Reports

a) **Executive** – Elise Backstrom | vice chair Charlotte Dean

   i) Updates from TC Chairs' Breakfast

      (1) Updated FG (Functional Group) Reference Manual available on TAC website

      (2) Updated TAC MOP and Reference Manual available on TAC website

      (3) FGs that have been formed in Current Society Year

         • TC 9.13.SPACE - Extraterrestrial and Deep Space Environmental Control Systems

         • MTG.BEQ – Building Energy Quotient

         • MTG.GAI – Generative AI for the HVAC Industry

         • TC 3.8, Refrigerant Containment, merged to within TC 3.1, Refrigerants and Secondary Coolants

      (4) 2024-2025 Hightower Award Nominations due by Friday, September 6th

         • George B. Hightower Technical Achievement Award recognizes outstanding technical leadership and contributions on a TC/TG/TRG during the past four years (excluding research and standards activities).

      (5) Roster rollover – new roster takes effect 7/1 for 2024-2025 Society Year.

      (6) Updated TAC Presentation Template Available for TC Members to use with local chapters (available on TAC website)

      (7) If you do not have access to the TC 1.4 Basecamp, please let us know.

b) **Education/YEA** – Michelle Shadpour | vice chair Greg Tayco
   i) Reported by Greg Tayco. Lots of new faces and some returning faces. Ron spoke at a webinar hosted by YEA with a great turnout. Link to webinar information: https://rb-cg.com/resources/
   ii) Refer to Subcommittee Minutes for more detailed report.

c) **Program** – Frank Shadpour | vice chair Ariana Axelrod
   i) 17 proposals for Orlando.
   ii) Refer to Subcommittee Minutes for more detailed report.

d) **Brainstorming - Innovative and Disruptive Technologies** – Chad Moore | vice chair Chris Benson
   i) Reported by Chris Benson. Lively discussion continuing from Chicago Winter Conference occurred.
   ii) Refer to Subcommittee Minutes for more detailed report.

e) **Research** –Amanda Pertzborn | vice chair Jayson Bursill
   i) Refer to Subcommittee Minutes for more detailed report.

f) **Handbook** - Terry Schroeder | vice chair Tara Shoorideh

   i) Handbook Subcommittee recommends TC approves Chapter 7 Fundamentals of Control for the Fundamentals Handbook.
      (1) Approved 5-0-0 (CNV).
   ii) Refer to Subcommittee Minutes for more detailed report.

g) **Standards** – Steve Taylor
   i) No report.

h) **Webmaster** – Elise Backstrom
   i) Webmaster position should be corrected by Society to Michelle Shadpour in 7/1 Roster Updates.

8) **Committee Liaison Reports**
   a) TC 1.5 (Emerging Computing Applications) – Mike Pouchak
      i) Reported by Mike Pouchak. Co-sponsored 2 programs with TC 1.4 this conference. They are making good progress on RP-1815.
   b) TC 2.10 HVAC Security – Kim Barker
      i) No report.
   c) TC 7.5 (Smart Building Systems) – Joe Zhou
      i) No report.
   d) TC 9.10 (Laboratory Systems) – Jim Coogan
      i) TC members have been paying close attention to activities with Guideline 36, they are working to bring in expertise on lab room sequences.
   e) TC 9.11 (Clean Rooms) – Phil Naughton
      i) No report.
   f) SSPC 62.1 (Ventilation and Acceptable IAQ) – Steve Taylor
      i) No report.
   g) SSPC 90.1 (Energy Efficient Design of New Buildings) – Steve Taylor
      i) No report.

9) **Old Business**

a) None.

10) New Business
    a) Recommendation to Revise Standard 195 – Jeff Stein/Steve Taylor
        i) Interested parties in being involved with the revision of Standard 195, please contact Jeff Stein (jstein@taylorengineers.com).
        ii) Jayson Bursill motioned for TC 1.4 to recommend the revision of Standard 195. JoeDon Breda seconded. Approved 5-0-0 (CNV).
        iii) Jim Coogan and JoeDon Breda volunteered to be listed on the committee for the revision form.
    b) Recognizing TC 1.4 Members Awards and Achievements – Elise Backstrom
        i) Crosby Field Award
           (1) Zhelun Chen
           (2) Jin Wen
           (3) Amanda Pertzborn
           (4) Zheng O'Neill
           (5) Steven Bushby
        ii) YEA Award of Individual Excellence
           (1) Michelle Shadpour
        iii) ASHRAE Best Paper Award
           (1) Paul Raftery
        iv) Distinguished Service Award
           (1) Paul Raftery
        v) Exceptional Service Award
           (1) Mike Pouchak
           (2) Frank Shadpour
        vi) Leadership U
           (1) Jayson Bursill
        vii) YEA Webinar
           (1) Ron Bernstein

11) Upcoming Deadlines
- Orlando Winter Conference
- Seminar, Forums, Workshops, Panels and Debates proposals are due by Friday, August 2nd, 2024.
- The portal to submit programs opened on Wednesday, June 19th, 2024.

12) Next Meeting – 2025 ASHRAE WINTER CONFERENCE| February 8-12, 2025| Orlando, FL

13) Adjourn